

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number:

0 405 572 A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 90112448.7

(51) Int. Cl.⁵: G10L 9/18, H03M 7/30

(22) Date of filing: 29.06.90

(30) Priority: 29.06.89 JP 167839/89
13.10.89 JP 265196/89

(43) Date of publication of application:
02.01.91 Bulletin 91/01

(84) Designated Contracting States:
DE FR GB IT NL

(88) Date of deferred publication of the search report:
13.03.91 Bulletin 91/11

(71) Applicant: FUJITSU LIMITED
1015, Kamikodanaka Nakahara-ku
Kawasaki-shi Kanagawa 211(JP)

(72) Inventor: Iseda, Kohei
Kopouisutaria 208, Ida 770, Nakahara-ku
Kawasaki-shi, Kanagawa(JP)
Inventor: Satoh, Kazumi

Sanfurantsu 101, 3-208, Asama-cho, Nishi-ku
Yokohama-shi, Kanagawa(JP)

Inventor: Kurihara, Hideaki

Hitomisou 1-1, 2-3-16, Sugekitaura, Tama-ku
Kawasaki-shi, Kanagawa(JP)

Inventor: Amano, Fumio

17-1, 1-chome, Chitosedai, Setagaya-ku
Tokyo(JP)

Inventor: Unagami, Shigeyuki

2-34-10, Morinosato

Atsugi-shi, Kanagawa(JP)

Inventor: Okazaki, Koji

Daiichimorozumisou 102, 18, Yanagi-cho,
Saiwai-ku

Kawasaki-shi, Kanagawa(JP)

(74) Representative: Lehn, Werner, Dipl.-Ing. et al
Hoffmann, Eitle & Partner Patentanwälte
Arabellastrasse 4
W-8000 München 81(DE)

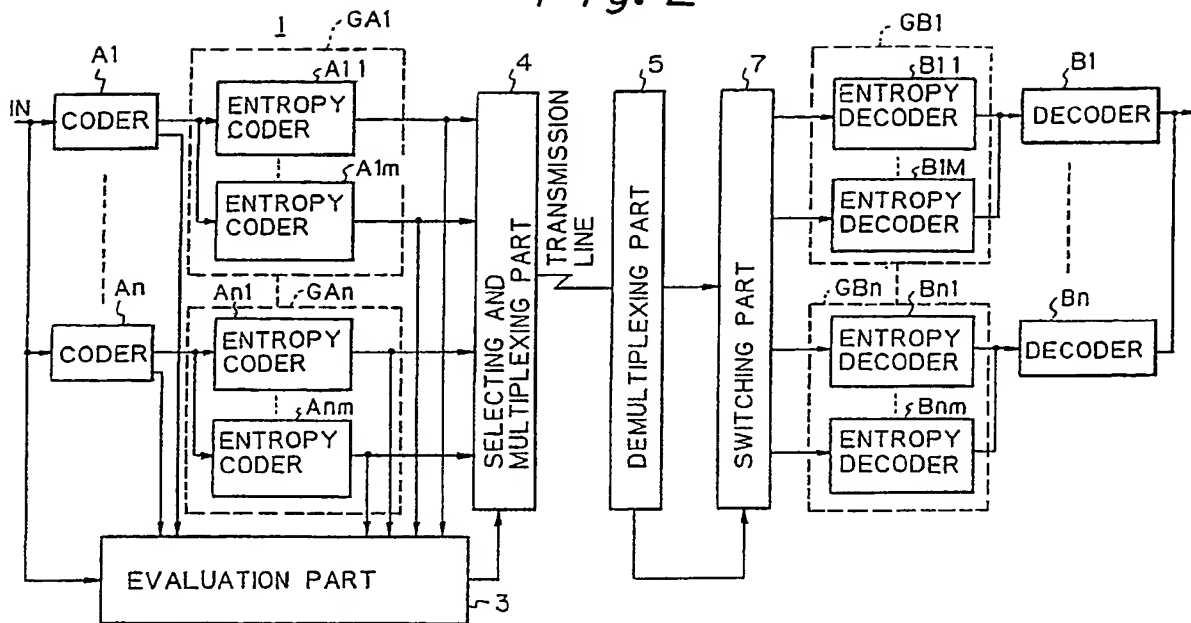
(54) Voice coding/decoding system.

(57) Disclosed is a voice coding/decoding system having a transmitting part (1) for transmitting a coded signal of an input voice signal at a bit rate lower than a predetermined transmission bit rate and a receiving part (2) for receiving and decoding the coded signal transmitted from the transmission part. To enable the coding and transmitting input voice signal in an optimum state without passing through a buffer memory and without having a negative influence on the coder, the transmitting part (1) comprises coders (A1-An) for coding the input voice signal and groups (GA1-GAn) for entropy coders (A11-Anm). The inputs of the entropy coders (A11-Anm) in each group are connected to the output of one of the plurality of coders (A1-An). The transmit-

ting part further comprises an evaluation part (3) for evaluating the characteristics of the outputs of the coders and the entropy coders to extract the entropy coders having output bit rates lower than the transmission bit rate and to extract, from the coders connected to the extracted entropy coders, a coder having the best output characteristic, to output a selecting signal indicating the combination of the selected coder and an entropy coder in the extracted entropy coders. The transmitting part further comprises a selecting part (4) for selecting, in response to the selecting signal, the codeword passed through the combination of the coder and the entropy coder to be transmitted.

EP 0 405 572 A3

Fig. 2





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 90112448.7
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	<u>EP - A2 - 0 283 798</u> (IBM) * Fig. 3; abstract * --	1,6	G 10 L 9/18 H 03 M 7/30
A	<u>GB - A - 2 162 025</u> (KING R.A.) * Fig. 1; abstract * --	1,6	
A	<u>EP - A1 - 0 164 677</u> (TEXAS INSTRUMENTS INC.) * Fig. 2a,2b; abstract * ----	1,6	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			G 10 L 9/00 H 03 M 7/00 H 04 N 7/00
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 13-12-1990	Examiner BERGER
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons ----- & : member of the same patent family, corresponding document			

EP0 FORM 1503 03.82 (P0401)

This Page Blank (uspto)